326 412 or bamboo, iron-bound or tightly whipped to prevent splitting. In the form of a shorter dalwé, with or without a point, it is used as an all-round implement in house-building. With this bamboos are hewn, split open and slit into widths, boards of bamboo or planks are chopped for floor-boards and timbers are hewn for posts. The short, broad-ended *dahmas* are used for heavy chopping and were the general choppers for meat and firewood in our kitchens. The dahma is a stout iron blade faced with steel. Lighter paring knives called *damauks* are also produced. Thus a Burman in a village normally carries a dah of some sort tucked into his waist as he sallies forth perhaps to find some firewood, house-building material or an enemy. The Shan people also had long murderous-looking dagger knives called *damyaungs*.

The iron-workers of Magwe sent us scissors which my mother preferred to stainless steel ones because they could be oiled and sharpened throughout a lifetime, and because they had inscribed on one blade her name and on the other "Health and wealth to you". We got our betel-nut crackers from there also; these had a blade on one arm, to cut as well as crack.

276 418 511 Our house, like every Burmese house, kept a betel box always ready for visitors. The box had a top tray with little cups or boxes for the chopped areca nut, orange peel, spice seeds and lime, and a bottom compartment for fresh betel leaves of the betel vine (*piper betle*). A deep cover fitted the whole box. Grown-ups smeared lime on a leaf, wrapped nuts and spices in it and chewed it, spitting out the red juice which is too strong to be swallowed. Betel has an astringent action in the mouth and by promoting the flow of salivary juices it aids digestion. Our betel boxes were of richly carved silver, with embossed designs of elephants, princes riding on horses in the forest, heavenly male and female spirits, all looking very alive. Silver carving is one of our show industries; the silversmiths at Mandalay and Moulmein produce handsome bowls, boxes, dagger handles and various other objects bought by foreigners. Burmese people do not have the custom of buying *objets d'arts* for their houses, but the articles of daily use which they like to have of good quality and pleasing designs are the real inspiration of these traditional crafts of Burma. The silver used ranges from rupee fineness up to the pure metal called *baw*. We had silver bowls, *ngway-balas*, of all sizes, smaller ones for drinking, bigger for pouring the bath-water, and enormous ones about twelve inches across for holding gifts to the monks on festival days. Sometimes my mother used these to hold *taik-pan*, the flowers of the honolulu creeper, for the drawing room, but she always preferred a religious use for such noble and valuable objects. I liked all these bowls very much; they had good proportions, round the rim and base was a border of formal scroll

326 412 531 511 353

design and, within this chaste frame, the elephants, princes, trees and *nat* spirits waved and bounded in profusion. At the base of each bowl was a felicitous salutation inscribed on a smooth ground. 326 412 531 511

Lacquer is another industry now turning out cigar and trinket boxes, table mats, bowls and other articles for the modern market, but also continuing to supply all Burmese households with objects for daily use. When my father was stationed at Magwe, we went up the river to Pagan and from there by bullock cart to the village of Nyaung-U where the best Burmese lacquer is made. A frame of bamboo strips woven closely is covered and filled out with a mixture of cow-dung and paddy husk, and given a thick coat of black *thitsi*, wood-oil. Traditional designs are engraved on this when dry, and successive coatings of thitsi mixed with colouring are put on, the bowl being allowed to dry and turned on a lathe to take off the colour not required in the pattern in between each coating. The finished product is polished smooth and so flexible that a bowl can be bent till the opposite sides of its rim touch. We had lacquer boxes, *yun-its*, of great size to hold my father's turbans and my mother's scarves, round ones to hold combs and tresses for my mother's hairdressing, drinking mugs, betel boxes and many others. We had *kyauk-ka*, a more solid lacquer of plain red and black, for food carriers. with plates and cups to match. 322 415 531 [438]

Wood seems part of the fabric of the Burmese craftsman's being. The wealth of the forests which provided teak, pyinkado, ingyin and a host of other woods for lasting structures; the perfect medium they afforded to the chisel, gouge and mallet of the carver, and the traditional forms of architecture which offered vantage points for the display of superb craftsmanship all combined to make wood-carving the most lively of Burmese arts. But wood-carving cannot be seen to advantage in domestic articles; we had carved wooden frames for photographs of monks and of Grandfather, carving on the screen which walled off the altar room, but Burmese carvers in wood had never devoted their talents to the cutting of small articles. Teak and *yamanè*, the two woods usually carved on, have a coarse grain in which fine detail cannot be rendered. Beginning from the days when the tradition was to reserve carving for the wood of sacred structures only—palaces and monasteries—the craftsman had put all his skill into animating the gables and eaves of tiered monastery roofs, palace walls and ceilings, with a riot of living ogres, nats, dancing spirits and birds surrounded by leaves, flowers and scroll work which did not leave an inch bare. 322 314 531

Still, the village craftsman with a talent for work in wood does not lack scope in his rural surroundings. 322

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Burmese AP4

304 885 places such as the tender inside parts of the thigh and at the joints of the knee, it needs more stoicism than most youths can command, to endure it without relieving the mind in speech. Therefore it is common to put the boy [276] under the influence of opium while it is being done, though some parents will not allow this, for cases have occurred where the youth has died of an over-dose. For the same reason it is very seldom that more than three or four figures are done at a time. The part swells up a good deal, and there is danger of fever; besides that a few days afterwards the itchiness which supervenes is almost as intolerable as the first tattooing, while if the skin is broken by scratching there is not only a nasty sore, but the figure is spoilt. You not uncommonly hear of cases where the whole surface was finished at one sitting, but you only hear of them because it is unusual, and because the youth is proud of it.

304 531 The instrument used is a pricker about two feet long, weighted at the top with a brass figure, sometimes plain, but in the case of good sayās, always carved more or less elaborately in the figure of a bird, a nat, or a bilu. The yat, or style part, is solid, with a round, sharp point, split up into four by long slits at right angles to each other, which serve to hold the colouring matter. This style is about four inches long and fits into a hollow pipe, which again joins it to the weighted end. Thus the length required for free work is gained without too great weight, except where it is wanted. The tattooer catches the pricker with his right hand, and guides the point with a rest formed by the forefinger and thumb of his left, the hand resting firmly on the person's body. The dye used is lampblack, the best being that obtained by the burning of sessamum oil, and this is mixed with water as it is wanted. Good sayās always sketch the outline of the figure roughly on the skin with an ordinary camel's-hair brush, and then the pattern is executed with a series of punctures close together, forming what afterwards fades into a rough line. Skilful men are very quick at it. I have had fifteen figures done in little over half an hour. But then, Sayā Chein is a celebrated man.

The figures tattooed are those of all kinds of animals, tigers, cats, monkeys, and elephants being the commonest,

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Shan AP11

while nats, bilus, and compound animals called tiger-bilus are also frequent. Each representation is surrounded by a roughly oval tracery of a variety of letters of the alphabet, which form a curious and remarkably effective frame. Thus each animal has a setting of its own. Vacant spaces are filled up in a similar way, and the top and bottom are finished off with a scolloped line. Sometimes these letters are asserted to have a cabalistic meaning, but ordinarily no greater virtue is claimed for them than that of beauty. Mystic squares and ladder-step triangles of serious import are often added in vacant spaces, but all the more important and valid charms are reserved for other parts of the body and for special execution, usually too in vermilion. The old style, and that which prevails still in jungle districts, was to cover every available piece of skin with tracery, so that the figures became blurred and indistinct, and on a dark skin grown old were practically not visible without careful examination, which, considering the portion of the body, was embarrassing to both parties. The newer style, and that specially affected by those with a white skin, is to sacrifice mass of colour to distinctness of outline. The best sayās carry about sample-books with them containing clever drawings, from which the aspirant may select the patterns he likes best, and mark their relative positions before he takes the opium. But tigers, cats, monkeys, and bilus always predominate. To fill up space, and for greater certainty, the name of the animal is often added in the figure, after the style of juvenile art on slates, or with a piece of chalk on blank hoardings.

B 304 531

The Shans tattoo even more extensively than the Burmans. The figures are carried down well over the calf of the leg and above the navel, while from the upper line tattooed rays run up to the chest and at the back, after the fashion of a rising sun, almost to the nape of the neck. Sometimes the retainers of the Sawbwas, or Shan chiefs, had every part of the body except the palms of the hands and the soles of the feet tattooed. Even the face was covered with the dark-blue markings. Mostly all the men who tattoo charms and cabalistic figures are Shans. They claim and are allowed a special skill in such matters, and as

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S B 305 751 563 they mutter spells and incomprehensible incantations over the "medicine," are looked up to with profound belief and a very considerable deal of awe.

B 304 531 The tattooing on the loins and legs is universal with all Burmans, and nothing more is ordinarily required; but there are very few who have not charms of some kind tattooed on the arms, back, chest, or even on the top of the head, which is shaved for the purpose. These figures are of all kinds—lizards, birds, mystic words and squares, rings, images of the Buddha, and sometimes merely a few scattered dots, the latter especially on the face, between the eyes, over the ears, or on the chin. The colouring matter is almost always vermilion, with drugs and solutions, according to requirement, mingled with it. The blue dye from the lampblack never disappears, but the red colour of the vermilion gradually fades away and vanishes. Nevertheless figures of this kind, more or less distinct, are to be found on Burmans of all ages, so great is the national superstition. Even the town youths, whose limbs are smooth and "unbreeched" as a girl's, are never without some charms of this kind, if it is only the a-nu se, which enables a man to gain the woman he loves. This "drug of tenderness" is composed of vermilion mixed with a variety of herbs and curious things, prominent among which is the bruised, dry skin of the tauktè, the trout-spotted gekko, whose sonorous cry and fidelity to the house where he establishes himself and brings luck, are well known to all who have visited Burma or Siam. It is very sparingly used, a few round spots arranged in the shape of a triangle being of sufficient virtue to ensure the object aimed at. The commonest place for them is between the eyes, but occasionally the se sayā recommends the lips, or even the tongue, and his advice is always followed. This is the only tattooing which women ever have executed on them, and there are not many of them who have it done. The patient is usually a love-sick maiden who is afraid the object of her affection will escape from her, or a girl whom rolling years warn that she must be quick if she would not be condemned to remain an a-pyo heing, an old maid. Except in very desperate cases, however, they always manage to persuade the operator to place the charm on some part of the

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body where it will not be visible. If it is not effectual, there is always open to them the signal afforded by kindly national custom to maidens longing for a mate. They cut off the lappets of hair, the bya-bazan, hanging over the ears, and the significance is the same as the white heather of the language of flowers, "heart for sale." In Rangoon the tattooing of a woman has a special signification, not recognised elsewhere. It means that she wants an Englishman for a husband. Poor thing!

Another very universal kind of tattooing is that with a-hpi se. Almost every schoolboy in the country has a specimen of this on him, for does it not prevent him from feeling the pain when he is caned? No amount of falsified hopes in the experience of friends will persuade him that it may not be effectual in his case, and a flogging is often courted as an immediate test of its efficacy. Pride repels the inquiries of chums as to the results, but the experimenter is usually very well behaved for some time. In the case of older men the a-hpi se acts as a talisman against bullets, sword cuts, and ills of that kind. Allied to this are the thenat hpi, which soldiers and dacoits carry about with them. These are the horns of buffaloes and other animals, which may be plain, but are usually elaborately carved with figures according to fancy. They must be quite solid down to the root. A hollow or flaw of any kind deprives them of their virtue. While the man has such a talisman in his hands he cannot be killed. A monkey is a very favourite image to have carved in this way on a sword or dagger hilt, the reference being to the tale of the Ramayana. Of a similar nature are talismans which are especially used by soldiers and dacoits. These hkaung-beit-set are charmed or consecrated objects let into the flesh under the skin. They are of various kinds. Some are gold, silver, or lead; others curious pebbles, pieces of tortoise-shell, or bits of horn, all of them with incantations of mystic character written on them. Many famed dacoits have long rows and curves of them over the chest, showing in little knobs through the skin. When they get into English prisons, an energetic jailer has been known to cut them out, lest they should be pieces of gold or silver, or perhaps precious stones, with which the turnkeys

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wore. Some of them went the next day to the English missionary chaplain, and told him of the misfortune that had befallen them, and how so completely were they rendered destitute that they had been indebted to the charity of the inhabitants of the monastery for a breakfast that morning. The clergyman promised to do what he could for them, and the same evening went along to view the site of the fire. What was his astonishment to find that the burnt-out victims had rigged up a rude stage among the charred stumps of their house-posts, and in default of a house to sleep in, were prepared to spend the night listening to the love-making of the princes and princesses, and laughing at the caustic witticisms of the clown, not a few of the jokes being inspired by the blackened surroundings. Such defiance of all the ills of fate is very characteristic, and would seem to a Burman mind the most natural thing to do under the circumstances, since it afforded both distraction and amusement.

If any one has escaped the curse of Adam it is the Burman. He does not need to earn his bread with the sweat of his brow, and riches having no attraction for him, when his patch of paddy land has been reaped, his only concern is how to pass the time, and that is no very difficult matter, where he has plenty of cheroots and betel-nut. He can stroll along to neighbour Maung Gyi's, whose son has a knack for wood-carving, and watch him as he deftly cuts out a piece of elaborate scroll-work for the roof of a neighbouring monastery, or finishes off the grim features of a bilu for the English Inspector of Police. Next door the sayā is engaged on a painting, the representation of some palace scene, or of some well-known event in the life of the Lord Buddha. Burmese artists do not, as a rule, paint likenesses, though they are by no means unsuccessful when they make the attempt. Any one but a high official would probably consider it a mark of great presumption and conceit to hang up a picture of himself in his house. There is, however, none of the objection to portrait painting which is so common with some other nations. For example, the Mohammedans will not suffer likenesses to be drawn for fear they should demand a soul on the Day of Judgment, and so some actual human being might come to be left out in the cold. Catlin

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792 [293] dozen or more solemn-visaged monks sitting on their mats and coyly hiding their faces behind these big fans is apt to raise a smile on the face of a foreigner. But there is no doubt that the regulation is well advised. Women are disturbers of tranquil meditation.

792 346 561 When these necessaries have been provided, the candidate proceeds to the appointed building. This is always a thein, a consecrated hall, built of teak, with open sides and the sacred three, five, or seven overlapping and diminishing roofs, not unlike the Albert Memorial in appearance, but much larger at the base. Here the examining body is assembled to the number of ten or twelve, ordinarily, but a minimum of four will suffice if the ceremony is conducted in the jungle. The senior is appointed upyitsi, or president, and a secretary is nominated, whose duty it is to bring forward the candidate and to read the Kammawāsā, the ritual of ordination. This is the most gorgeously ornamented of all the Burmese books. It is written, not in the ordinary round character, but in square letters painted on with a thick black resinous gum, and requires a special education to read it. The leaves are formed either of the ordinary palm-leaf, thickly covered with red lacquer, and profusely ornamented round the border and between the lines with gilded figures of nats and elaborate scroll-work, or in the case of the more sacred monasteries, of the discarded waistcloths of kings. None might wear these pasos after the Great King of Righteousness had tired of them, and many were therefore made use of for this purpose. Portions of them are taken, doubled over, and then covered with numerous coatings of wood-oil and a paste composed of this same thitsi, with finely sifted burnt rice-husks, sawdust, and rice-water, until at last they become firm as a piece of cardboard, but vastly more pliant. Then the sheets are emblazoned, and the text painted on, the whole being enclosed between richly ornamented teak boards. Few more splendid-looking manuscripts can be seen anywhere. Occasionally copies are found engrossed on thin sheets of ivory or copper, but those on the royal pasos, called Wut-lè Kammawāsās, are most highly esteemed. The text is always read in a peculiar way, in a high-pitched, jerky recitative, which is not without a certain impressive effect.

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brotherhood. The space between the ground and the floor of the kyaung is always kept open and is never used except by the school-boys, who have not arrived at notions of personal dignity, and find the locality retired and convenient for games at gō..-nyin-to, and the discussion of forbidden eatables, or subjects of conversation. There are always a few pariah dogs there too, dozing off the surfeit of food they have had from the morning begging-pots, or the offerings at the pagoda. A flight of steps of stone or wood leads up to the verandah, which extends all along the north and south sides, and frequently all round the building. If the steps are of stone, or rather brickwork covered with plaster, they are usually adorned at the foot by propylæa in the shape of two bilus, or a couple of manôt-thiha—curious creatures, half man half lion—usually bold enough in conception, if somewhat rough in execution. Tiers of trefoil heads usually characterise the parapets when they are of mason-work. When the ladder is of wood it is covered with spirited carving in deep relief, representing nats and ogres, dancing figures and grim warriors, with abundant scroll-work as everywhere else throughout the building.

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From the raised floor thus reached, rises the building, with tier upon tier of dark massive roofs, giving the appearance of many stories when there is actually but one, for the reason already mentioned. This style of roofing was allowed only for religious buildings, for the royal palaces, and for the houses of a few high officials who acquired the honour by special patent, and with whom the form and number of roofs was a matter of regulation settled by the sumptuary laws. Under British rule it is practically confined to monastic buildings and the houses of feudatory chiefs. This spire-like style of roof is called pyathat, and properly there are but three kinds: with three super-imposed roofs called yāma, with five roofs called thuba, and with seven, as the royal palace and the most sacred kyaungs, called thuyāma. The ends of the gables are adorned with pinnacles or finials, each with a curious wooden flag at the top and crowned with a hti, gilt and furnished with bells, copper, silver, or gold, the whole being elaborately carved. The triple, quintuple, and septuple roofs of the monastic houses, with their

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elaborate adornments, there is little doubt found their origin in the opportunity which wood gave for the development of ornament in the way of carving. If the wooden monasteries are compared with the strikingly similar wooden churches in Norway—at Hitterdal, for example, or Borgund—we have a proof that nature, under like circumstances, always produces like results from human ingenuity. It may be added that the simple tumulus, which was the original idea of the bell-pagoda, is also found in the Scandinavian *haug*.

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The kyaung accommodation is very simple. It consists in the main of a great central hall divided into two portions, one level with the verandah where the scholars are taught, and most of the duties of the monastery carried on, and the other a raised dais, two feet or so above the level of the rest of the building. Seated upon this the yahans are accustomed to receive visitors, and at the back, against the wall, are arranged the images of Buddha, a large one usually standing in the centre on a kind of altar with candles, flowers, praying flags, and other offerings placed before it, and on shelves alongside a number of smaller figures of gold, silver, alabaster, clay or wood, according to the popularity of the kyaung and the faith of the neighbourhood. Close by are placed also the manuscript chests, sadaiks, small shrines, models in wood of monasteries and pagodas, the fans and other religious implements of the pyin-sin and the gifts of the pious, heaped together ordinarily in very careless fashion. The central image is almost invariably placed on the eastern side of the building. There are occasionally dormitories for the monks, but as a rule they sleep in the central hall, where the mats which form their beds may be seen rolled up round the pillow against the wall. In many monasteries there is a special room for the palm-leaf scribes, often detached from the main building, as are the cook-room and the bathing-houses.

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The whole area of the extensive compound in which the monastery stands is enclosed by a heavy teak fence with massive squared posts and rails, seven or eight feet high. All within this parawun is sacred ground, and the laity, when they enter, take off their shoes and carry them in their hands. This rule applies to the highest in the land, and when a

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sin, and especially to protect the pigeons, which usually flock about the monastic trees. Not many people in England would think of going to shoot in a churchyard.

The majority of kyaungs in the jungle and in the smaller towns are plain teak wood, or brick and lime structures, with more or less ornate carving and moulding, and interior decorations; but to see the really gorgeous ecclesiastical buildings one must journey to Mandalay. There the Kyaung-daw-gyi, the Royal Monastery, is the most striking collection of edifices of their kind to be seen in the world. At the foot of Mandalay Hill, just outside the eastern gate of the city, it extends over an area of a good many acres. Every building in it is magnificent; every inch carved with the ingenuity of a Chinese toy; the whole ablaze with gold-leaf and a mosaic of fragments of looking-glass, embedded in a resinous gum, while the zinc roofs glisten like silver in the sun, and the golden bells on the gable spires tinkle melodiously with every breeze. The huge posts are gilt all over, or covered with a red lacquer; the eaves and gables represent all kinds of fantastic and grotesque figures. The interior is no less elaborate, the panels of wall and ceiling are some carved, some diapered with the mosaic mirror work, glistening like polished metal with a rough gold mesh net thrown over it. The wood-carving is particularly fine; the effect in some places, where the birds, pecking, taking wing, alighting, and in every other variety of attitude, are so cut as to appear to underlie the profuse flower tracery, being especially clever. The amount of gilding, spread thickly over every part of the kyaung, alone represents many hundred pounds. Singular from its plain unadorned appearance is the high, brown teak-wood tower in one corner, to which the Sadaw-gyi and his monks occasionally withdraw, to devote themselves to contemplation and the task of learning to know themselves and the khandas, as well as the Seit and the Seikdathit. For this withdrawal from their gorgeous surroundings, to indulge in abstract thought, they have the example and precept of the Lord Buddha himself, who, even when he reposed as a babe on the bosom of his aunt Gautami, gave himself over to contemplation.

The whole of the flat land between Mandalay Hill and

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the city walls was formerly covered with monasteries, each of them standing separate and enclosed within its own parawun, and almost all presided over by a sadaw, a monk of the highest rank. They were thus entirely independent of each other. One of the most interesting for Englishmen is the Thiho Taik, the "Ceylon Monastery," presided over by Lingayāmā, a sadaw who was in great favour with Mindôn Min, the last king but one. The term taik is always applied to a "bishop's monastery," as implying that his is the chief of a number of kyaungs, all under his care, and in which he makes occasional sojourns. The Thiho Taik is peculiar for its trim appearance. It is very new; the under part of all the buildings is of brick; the compound is kept scrupulously clean; there is not a single large tree in it, and the parawun is a neat sawn-wood fence, instead of being, as is the case almost everywhere else, composed simply of huge stems of trees placed side by side in the ground. The sadaw himself is a very enlightened man. He has been several times to Rangoon to worship at the Great Pagoda, and to decide on questions in dispute. He has, in his library, copies of the English Scriptures in the Burmese version of Judson, and has read them through. Numbers of American Baptists' tracts, and the sacred books of other religions, have also a place in his manuscript chests. These are all deposited in a separate building standing in the middle of the enclosure, and used for no other purpose, except that the scribes sit here making copies of borrowed MSS., or setting down notes of the learned bishop himself. The palm-leaf book is still universal, and the work of making up a volume is therefore very laborious; for the most practised manipulator cannot, with his agate style and light strip of palmyra-leaf, exceed the speed of an English boy who has just got over the preliminary difficulties of pot-hooks and hangers. The letters scratched on the leaf are made more distinct by the application of crude earth-oil. This serves to darken the writing, as well as to preserve the book. The regular scribes are always laymen, and it is a matter of very considerable unpleasantness to the cenobites, that the cleverest of them are very often uncommonly bad livers, spending all their gains in libations of "Old Tom," or little

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balls of opium. These vagaries are, however, frequently winked at, for a copyist who can write neatly and with accuracy is far from being common.

The Thiho Taik library is a model in its way. It is nearly the best monastic collection in Mandalay, and is certainly far better arranged than any other. The sadaiks, or manuscript boxes, are arranged in three rows, one over the other; the thôts and zāts—the sermons and birth-stories—of the Lord Buddha below; above them the Cinghalese commentaries and exegeses; and on the top shelf Burmese translations and the explanations of various learned sadaws. Each chest contains a large number of different books, every separate collection of leaves being enclosed between wooden boards, some plain, some carved in high relief, with figures of dêwas and demons. Round this is wrapped a kabalwè, a square piece of cloth with inwoven scenes from the sacred books, or portions of the Law, and the formulæ used at the pagoda. Most of these are of silk, very often with narrow slips of bamboo worked in so as to give stiffness to the whole. Instead of this, or sometimes in addition, is used the sā-si-gyo, a riband, about two fingers' breadth, and upwards of a yard in length. This is knitted or crocheted in a peculiarly close fashion, which puzzles English ladies. On it is worked the name of the owner, his titles and distinctions, and whatever other aspirations he chooses to add. They are very neat, and quite easy to read, an advantage which does not always characterise Berlin wool work. The king's grants of forest land, monopolies, and the like, were usually executed in this way.

All the boxes are kept carefully locked, and the door is barred at night, for such a library represents years of labour, and could only with the greatest difficulty be replaced. It is only in Mandalay that libraries of any value are to be found. In Lower Burma the majority of the kyaungs do not even possess a complete copy of the three parts of the Bitaghat, the Buddhist Bible, and some few have nothing beyond a copy of the Kammawāsā, and perhaps a Malla Lingaya Wuttu, a life of the Lord Buddha, or something of the kind. Many others have, no doubt, valuable collections, but the monks are ignorant, they cannot read the books

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all carefully preserved, along with many other gifts of the home-keeping pious; rolls of yellow cloth, Dutch clocks, betel-nut boxes, spare spittoons, and begging-pots, rugs, and pots of honey. The images of the kyaung, contrary to the usual custom, are placed in a glass case in the centre of the room, instead of at the east end. This situation is due to their value, most of them being of silver or gold, and one or two studded with precious stones.

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The Thiho Taik was certainly one of the neatest and most methodically arranged monasteries to be seen anywhere. Unfortunately it was burnt with many others in the year of the Annexation. There were many more gorgeously decorated, and still more that were larger. The biggest in Burma was probably the Maha Yatana Paung-daw, which stood near the great Arakan Pagoda in the suburbs of Mandalay, and was in great part burnt down in 1879. The building, with its encircling platform, measured 440 feet by 200, and was supported by 404 massive teak trees, none less than two feet in diameter, and the central posts, which upheld the topmost tier of roof, must have been quite eighty feet in height. Near Maulmein, in Lower Burma, there is another kyaung remarkable for the huge girth of its posts.

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The brick monasteries are commonest in the neighbourhood of Mandalay and other old capitals. They are covered with chunam, and in place of having a spire, are themselves built in the form of a pya-that, rising in the shape of rectangular terraces to a considerable height. Round the central hall, which is often divided by a gilt railing across the centre, are a number of cloisters and corridors, which ensure a perpetual cool breeze. Many of these monasteries are adorned with fresco paintings in the hall and in the honeycomb of corridors, representing usually scenes from the Zats, passages in the life of Shin Gautama, an especially favourite one being the Jataka of Nemi, where the pious prince is represented as a white ghostly figure in a chariot, passing, like the *pius Æneas*, through the dismal abodes of hell and the six heavens of the nats. Some other representations portray the occupations of daily life, such as feasting, hunting, weaving, and the different nationalities to be seen

2:Scott G-5 (1870's-1° 910 AP1 Burma AP1
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Indians

in the country. A very common scene shows the punishment which awaits fishermen in the next existence. The miserable destroyer of animal life is represented as dangling by the tongue on a fish-hook, while demons jerk him into the air, and drop him back into a lake of burning pitch. Many of them have inscriptions below to explain the subject of the picture. Thus in Pagàn:—

"When King Ne-bin Min-gyi reigned in Methila over the ten governors, according to the old books, the Thagya Min came from the nat heavens to help him."

"In the Monastery Yatana Shwe-daing, our Lord preached the Patenôn Tagayo, and remained several days."

"Shin Thumeda (Gautama), in the land of Thudawdana, received the Buddhaship under the banyan tree."

"Payā Alaung Theidat (the embryo Budh, Prince Siddartha), the King's son, married 4000 charming Yathe-mya."

"Our Lord rides on the elephant Nalagiri."

And so on in great variety. One also often finds such a notice as this scrawled on the wall: "In order to be prepared and to gain happiness in the seats of men, of nats, and of ne'ban, the rice-pots are set in order, the images are erected, and the paintings on the walls painted."

The monasteries are built, supported, and furnished by the pious, but there are not a few of them that have considerable sums of money laid away, usually under the control of the kappiya-dāyaka, the layman who lives in the kyaung, and provides for the wants of its inmates. A number of the royal fields round about Aungbinle, where the Burmese army assembled to seek victory before entering on a campaign, were set apart for the use of the Royal monastery at Payā Gyi, and the revenues were kept in a huge money-chest, which was always under the care of a guard of soldiers. Much of the money was devoted to the adornment of the adjacent pagoda. None can be spent on embellishing the monastery itself. That would be as great a sin as if a monk should build one for himself, besides that it would be depriving the populace of much opportunity for gaining merit.

There are a few monasteries of the Pônnas here and there in the large towns throughout the country. These

2:Scott G-5 (1870's-1909)1910 AP1 Burma
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is kneaded in. In the coarse, common articles for every-day use, tempered clay and some other materials are often used; but this being thicker and less putty-like, is apt to scale and come off in flakes, especially if at all roughly used. This thayo is allowed to dry quite hard, and the box is then fastened to a rude lathe, which is turned with one hand, while the other is employed in polishing the box. This smoothing-down is effected with sifted ashes, or sometimes with a piece of silicious bamboo, which is as good as fine sand-paper. When this is done the box is ready for a fresh coat, which almost invariably consists of a mixture of finely-powdered bone-ashes and thi'si. This, after drying, is polished in the same way as before. We have now a box of a brilliant glossy black, in itself very pretty and fit for use anywhere. But this is only the end of the first stage; none but the byat and common wooden platters are left in this state.

The ground colour of the great majority of the boxes and cups is red; but some of the black wood-oil is required to rise through it and define the pattern. This is effected in a most ingenious way. The black box is put on the lathe again and turned round, while the lines and spots, and the form of the black pattern generally, is sketched on with a sut, or split stile, charged with thi'si. The drawer has no guide but his eye. There is no preliminary mapping out, yet a practised hand will never make a mistake and spoil a box. The fresh thi'si thus put on stands up above the general level of the surface. The whole box is now covered with red paint; and when this is dry the box is put on the lathe again, and the operator turns it round and rubs it steadily with ashes. By this means the red paint is removed where the lines of thi'si rise above the general surface, and the black pattern stands out clearly on the red ground. A quaint chequer-work is also always produced, where the slightly projecting edges of the bamboo wicker-work raise the black wood-oil through the vermilion layer. Still, however, it is not finished. No box is complete without three colours; and this last shade is applied in an equally simple and effective way. The desired pattern is incised with a graving-tool called a kauk—often nothing

uScott G-5 (1870's-1909)1910 AP1 Burma
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531 more elaborate than a pin firmly tied to a piece of stick. Then the whole box is coated over with the new colour, and this is in its turn polished off on the lathe till nothing remains but the lines of the engraved pattern. If another colour is required, a similar process is gone through.

531 285 322 When the design is complete, a clear varnish of another vegetable oil, called shansi, with a dash of thi'si in it, is applied all over as a last touch, unless indeed a very high polish is required. This is effected by rubbing gently with the powdered petrified wood found so useful in imparting a gloss to the alabaster images. The patterns are none of them very intricate, and are handed down as heirlooms from father to son, so that the same family will have all its ware made on a few clearly-defined models, and there is no fear of "spoiling a set." The invention does not as yet soar beyond scroll-work and line-figures of infinite variety; but should a foreign demand spring up there would be no lack of skill to meet it; just as the Rangoon tattooers have taken to copying pictures out of the *Graphic* on English sailors' breasts.

The supreme test of excellence in the manufacture is when the sides will bend in till they touch without cracking the varnish or breaking the wicker-work. Connoisseurs can discriminate between Shan, Nyaung-u, and the ware of other places, by the shadow thrown on the inside (which is varnished plain red or black), when the cup or circular box is held at an angle of forty-five. Three colours only are used besides the black groundwork; but variety is produced by graduating their intensity of shade. They are red, green, and yellow. Red is prepared from finely-ground vermilion mixed with shansi. The Nyaung-u people prefer a vermilion called hinthapadi ywè, prepared by themselves, to that procured from China and used elsewhere. The home-made stuff seems to be much brighter in tint. Myeni, red ochre, is used only with the coarsest work. For yellow, yellow orpiment is ground down and washed several times until a pure, impalpable powder remains. This is mixed with a pellucid gum, and when required for use, worked up with shansi. Green is obtained by adding finely-ground indigo to the yellow orpiment until the required tint is

2:Scott G-5 (1870's-1909)1910 AP1 Burma
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obtained. Red and yellow are, however, always the predominating colours. 531 285 322

The thi'si is turned to a variety of other uses besides the manufacture of lacquer-work; applied to wood, or to marble and clay images, it enables them readily to take on gilding. It is used as a waterproof varnish to all the umbrellas in the country, and makes them as impervious to rain as if they were made of wood, while it protects the palm-leaf against the rays of the sun, which otherwise would burn it as brittle as an egg-shell. All the racing and war-boats in Burma are painted with it, and the best caulking in the world could not make them more water-tight. Finally, boiled down thick it furnishes the material for delineating the square heavy characters of the sacred kammawa-sa, the ritual for the admission of brethren to the sacred order. 531 249

The oil is usually put in the sun for a short time before being used, and it is at first of a light brown colour, soon darkening into a brilliant black. It seems to be of a particularly mordant character, and raises huge blisters on the hands of some people, leaving marks of the ashy-white colour suggestive of leprosy. Hence strangers suspected of being afflicted with the terrible malady always declare they are thi'si workers; and many people avoid these latter, in case they might find they had been holding communication with an outcast. A lotion composed of fine teak-wood sawdust, mixed with a little water, is used as a cure for blains. Many of the workmen periodically swallow small doses of the wood-oil, under the impression that it acts as a preventive. The capriciousness with which the varnish acts, leaving some men quite unharmed and punishing others severely, has given rise to a proverb in Nyaung-u:— [753] [757]

Thi'si is a witness
To a burgher's fitness;
If bad, he's marked an outcast;
If good, not long can doubt last.

2:Scott G-5 (1870's-1909)1910 AP1 Burma
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and bamboo, and the seats themselves serve more to stiffen it and prevent a wrench from doing any harm, than as conveniences for the paddlers. There are twenty-four of a crew all told, and the boat is fifty feet long. It is painted all black, save at the bow, where there is a brilliant representation of the peacock, from which it takes its name. At the end they come with a great spurt, shouting and bending to each stroke, and another great yell rises from the bank to assure them of the approval of their townsmen.

A length or two behind them comes the Thônkwa boat, paddling along composedly to the time of their celebrated rowing song, a mysterious, gusty air that has suggestions of the swirl of the river eddies and the rustle of the wind in the tall kaing-grass that lines their native creeks, in its varying measure. It comes over the water gently enough now, but many is the time it has swelled like a hurricane-blast and left the opposing boat foolishly as if it were at anchor. The Thônkwa crew are as different as possible in appearance from their robust young rivals. There is probably not a man under thirty among them, but there is not a superfluous ounce in all the wiry twenty-four. Every thew is tough as whip-cord, with long struggles against the rush of the current in the flooded creeks; every face and arm and shoulder is deep brown with exposure to the wind and the sun, for not a man among them but is a fisherman, and thinks nothing of the wild squalls that sweep over the delta and ruffle the swift current into a dangerous surge. No wonder they have an unbeaten record; and U Ôn fidgets about uneasily when the famous pè-nin of the Thônkwa boat salutes him obsequiously as the boat sweeps up.

No one knows how old Ko Kya-gyi is. His withered face and shrunken body suggest that it is time he was giving up fishing and endeavouring by assiduous piety to get his balance of kan somewhat more on the right side towards another existence, but he is tough as buffalo hide still, and no man in all Burma has a greater name than the ever-victorious Thônkwa steersman. None like him to keep a boat straight in the conflicting eddies that have thrown out many an apparently conquering boat; none like him to gauge the strength of his crew and spurt just at the right

2:Scott G-5 (1870's-1909)1910 AP1 Burma
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the great rivers again. The surest way of putting an end to "roping" and false rowing with the object of mere money gain, is to reintroduce the old honest, enthusiastic rivalry. Where every rower feels that the name of his village depends upon the prowess of his arm, there will be no "sugaring" and ignobly waiting, in Sheffield handicap fashion, to "have their heads loose."

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All the races in the low country are rowed in hlaw hle, or hlaw laung, that is to say, in paddle-boats. Up country there are frequently contests in hkap hle, "pull-away boats," rowed with oars, but even there the national paddle predominates. It may be mentioned that the coast men are by far the better rowers. In the Mandalay October races in 1881, a scratch Bassein boat challenged all comers, and was victorious in every match.

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There are a variety of boats, mostly, however, made on the same model, of which the launggo is the type. This is simply a canoe hollowed out of the trunk of a tree, the sides of which are drawn out by charring and inserting wedges; then the boat-builder chips out the centre. The laungsat is only a little larger and more commodious, plank sides being added to the solid keel, if it may be so called. The huge hnaw, or rice-boats, are made in the same fashion.

Of a different style are the pein-gaw, huge, ungainly, barge-like things, used principally at Yenangyaung for carrying oil. Along the sides, projecting over the beams of the boat, and reaching aft to the house raised on the quarter-deck, are tagin, a sort of platform for the polers to walk backwards and forwards on. Pihn-gaw keep mostly in shallow water, so that their ungainly weight may be moved along by poles, which is much quicker and less laborious work than rowing.

Barring exceptionally fine racing-boats, the hlawkadaw, or hlawga, the king's despatch boats, were the finest specimens of boat-building. They were gilt all over, even to the kat-tat, or paddles, and the stern rose high up in the air for the accommodation of the steerer. The express boats, or hpaungpaw, had usually a representation of the kalawaik, the carrying bird of Vishnu and national emblem of the Burmese, on the bows, and had often as many as sixty

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36 Parama nu-myu	=	one a-nu-myu, visible particles of dust, such as the motes dancing in the sunbeam.
36 Anu-myu	=	one ka-nyit-che, a gross particle, such as the dust which falls from the style, when a scribe writes on a palm-leaf.
7 Ka-nyit-che	=	one than ôk-kaung, a louse's head.
7 Than ôk-kaung	=	one môn-nyin se, a mustard seed.
3 Môn-nyin se	=	one hnan se, a grain of sesamum.
4 Hnan se	=	one san se, a grain of rice.
4 San se	=	one hkyin ywe, a seed of the *Abrus precatorius.*
2 Hkyin ywe	=	one ywegyi, a seed of the *Adenanthera pavorina.*
4 Ywegyi	=	one pè.
2 Pè	=	one mu.
2 Mu	=	one mat.
4 Mat	=	one kyat.
5 Kyat	=	one bo.
20 Bo	=	beittha, a viss, 3.652 lbs. avoirdupois.
4 Beittha	=	one tula.
4000 Tula	=	one tapông, or tasu.

The only weights in ordinary use are the mu, mat, nga-mu (or hkwè), half a kyat, and the kyat. The standard weights are usually formed with a figure of the sacred hantha on them, or sometimes with the animal representing the royal birthday.

Formerly the Burmese had no stamped coinage, and the silver and gold used, mixed in greater or less amount with alloy, which necessitated the calling in of an assayer for every transaction, was always dealt out by weight. King Mindôn struck gold coins stamped with the lion and the peacock, silver and copper with the royal peacock, and lead with the hare. The lead coins were simply blobs of metal like a spherical bullet squeezed out of shape. One might examine thousands of them and never see a hare. Mandalay

2:Scott G-5 (1870's-1909)1910 AP1 Burma
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varnished over with wood oil, so that every particle of the corpse may, if necessary, be covered with gold leaf, and this, except in very poor neighbourhoods, is always done. Where there is not money enough, the yellow sacred garments are wrapped round the corpse instead. The arms are always folded on the chest. The body is then placed in the coffin. This is not, as is the case with laymen, made of planks, but of a single log roughly hollowed out, and with a very substantial lid. This lid is not fastened down for a considerable time, and occasionally a bamboo pipe leads from the coffin into the ground to assist in drying up the embalmed body. The fastening down of the cover is sometimes rather an unpleasant spectacle. Many of the old pôngyis keep logs in their monasteries to serve for their coffins, and these, when hollowed out, are not always a satisfactory fit. Bishop Bigandet tells of a horrible sight he witnessed, when the lid had to be crushed on with wedges and the blows of a heavy mallet. The majority of aged yahans are, however, so shrivelled and shrunken before they die, that such an occurrence, which, it must not be supposed, is any less dreadful to a Burman than it is to an Englishman, could only happen very rarely, and then probably would not be carried out in the way which so justly shocked the good bishop.

The inner coffin is then, like the body, varnished with thitsi, and gilt all over. For it is prepared an outer casket called a payaung-bông, which is as magnificent as the skill of the local artificers and the liberality of the "benefactors" permit. This sarcophagus is often very large, and is richly gilt and painted in the panels, which are fringed with the usual mosaic of bits of mirror, coloured glass, and zinc. The paintings naturally represent religious subjects, usually scenes from the life of Shin Gautama; his famous meetings with the old man, the sick, the dead, and the monk; his departure at night from the magnificent court of King Thudawdana; his ascent to Tawadeintha, and the like. Rearing itself over the top of the sarcophagus is usually the figure of a nagā, recalling the pious dragon chief that sheltered the Lord Buddha from a flood of rain by coiling seven times round his body and expanding its hood as a covering.

Meanwhile, money is being steadily collected for the

2:Scott G-5 (1870's-1909)1910 AP1 Burma
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remainder of the rites, and as this comes in from the elders of the surrounding villages and the kappiyadayakas of neighbouring religious houses, the kyaungthagyi of the deceased's monastery sets about erecting an edifice like a thein, a "monastery of the dead." This is a building, more or less substantial, according to the sanctity of the departed, built of teak, and open all round, with the tapering ecclesiastical pya-that rising over it. Hither the coffin, with the sarcophagus, is carried and deposited on a dais in the centre, a slight railing serving to keep off wild animals. Over it a large white umbrella, with a deep paper-lace fringe, is fixed, and round about hang a number of paintings, similar to those on the payaung-bông, some of them, however, representing the favourite subject of the different races of men as known to the artist—the swarthy Hindoo, the oblique-eyed Chinaman, the Kachin with his pig on his back, and the ghastly white-faced Englishman with dog and gun. Others are simply grotesque, and a few horrible, in their delineations of the horrors of hell. Nevertheless, they are all allowed to hang there, for though it is expressly stated that paintings are among the five species of gifts which are not meritorious (dancing is another), the ordinary layman thinks that the painting he gives must certainly be an exception. Here and there in this odd kind of mortuary chapel are also keinnaya, gay tinselled pasteboard figures of men with birds' lower extremities, manôttha keinnaya and nat keinnaya, the latter having the wings and gorgeous aspect of nat-dêwas. Here the body lies in state, and there is a constant stream of pilgrims—some of them from far distant parts of the country—who come to say their religious sentences, make offerings of flowers and fruit as they would at the pagoda, and contribute what they can afford towards the remainder of the ceremony. [531]

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The body remains till the required sum is collected. During that time numbers of festivals are celebrated at the ne'ban kyaung; bands of music play frequently, and the same people often make three or four different offerings. The lying in state usually lasts several months, sometimes considerably over a year, and it is to be noted that a pôngyi byan never takes place during Lent. [796]

16:Fielding Hall G-3 (1885-1890) 1898 AP1 Burma
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are covered with carving along the façades and up the spires, scroll upon scroll of daintiest design, quaint groups of figures here and there, and on the gateways moulded dragons. All the carvings tell a story taken from the treasure-house of the nation's infancy, quaint tales of genii and fairy and wonderful adventure. Never, I think, do the carvings tell anything of the sacred life or teaching. The Burmese are not fond, as we are, of carving and painting scenes from sacred books. Perhaps they think the subject too holy for the hand of the craftsman, and so, with, as far as I know, but one exception in all Burma—a pagoda built by Indian architects long ago—you will look in vain for any sacred teaching in the carvings. But they are very beautiful, and their colour is so good, the deep rich brown of teak against the light green of the tamarinds, and the great leaves of the plantains all about. Within the monastery it will be all bare. However beautiful the building is without, no relaxation of his rules is allowed to the monk within. All is bare: only a few mats, perhaps, here and there on the plank floor, a hard wooden bed, a box or two of books.

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At one end there will be sure to be the image of the teacher, wrought in alabaster. These are always one of three stereotyped designs; they are not works of art at all. The wealth of imagination and desire of beauty that finds its expression in the carved stories in the façades has no place here at all. It would be thought a sacrilege to attempt in any way to alter the time-honoured figures that have come down to us from long ago.

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MGA-KUT-SOK (Mortar): The mortar resembles an inverted truncated cone with a loop handle extending from the rim. It is made of the smeared-brown glazed ware described above. A teak wood pestle (GYEBOK) is a rounded club about 15 inches long and 2 inches in diameter. Some are ornate with circular bands, but U Myaing's club is plain. It took him about an hour to make. The mortar was purchased here and cost 10 annas. Number of mortars in Pathee: 1, Camp: 1. [531]

DAN O (aluminum cooking pot): The aluminum cooking pot is a wide cylindrical form with a flat lid. They are made locally. U Myaing's family had three in camp ranging in size from 10 inches in diameter and 4 inches high to 12 inches in diameter and 5 inches high. The vessels were used for cooking rice and curry. A pot holding 6 LOK of rice costs Rs. 4/-. Pathee number: several, camp: 3. [435]

DANYIN LOK (aluminum pail): One aluminum pail, cylindrical in form with a height of 7 inches and diameter of 6 inches, and wire handle, was used in camp as a container in hauling foods from market and in their preparations. It cost Rs. 2/8 in Rangoon. Pathee: [435]

Miscellaneous containers: Several beer bottles and circular cigarette tins were used in camp to contain oils and spices.

SHAN JAIK (Tiffin Carrier): A rectangular lunch box, or tiffin carrier, of aluminum was bought in Rangoon for Rs.3/8, Pathee: Rs. 12/-.

KYWAY PAG-NWA (China Plates): A single broken china plate was used as a cover for the water jar in camp. This was one of three brought from Pathee, where they cost Rs. 2/-. This is a special ware which was usually reserved for guests. In Pathee, the family had enough for family use and guests on special occasions.

THAN PAG-NWA (enamelled iron plates): Two enamelled iron plates of shallow dish and bowl form (about 12 inches in diameter) were used in camp. These cost Rs. 2/- each. Pathee: 0.

YAINGWA (stirring spoons): Two spatulate bladed spoons with thin handles 12 inches long were used as stirring spoons in the preparation of food. The iron one was bought in Rangoon and cost 10 annas. The wooden one was made by U Myaing in Pathee out of teakwood. It took him 2 hours to make it with a small knife.

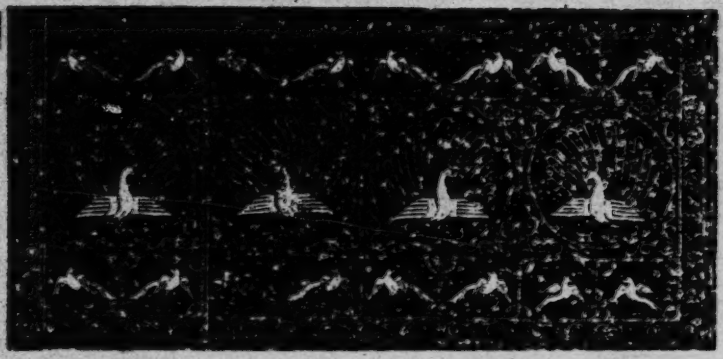
SOOMB (eating spoons): Chinese porcelain spoons (KYWAY) and brass spoons (YWEK) were used indiscriminately to dip curry sauce over the rice. The Chinese spoons are boat shaped with high and hollow handles. The brass spoons are similar to European soup spoons. The porcelain spoons were preferred aesthetically, but because the children frequently broke them, brass spoons were most commonly used. Cost and frequency: In Pathee, 60. Camp: 8.
Food is commonly eaten with the fingers in all levels of Burmese society.

DAH (knife): The big knife used in camp for cutting fire-wood and other chopping jobs was about 1½ feet long including an 8 inch wooden handle bound in iron. The steel blade is curved slightly upward, has a square end and is used as a chopper frequently with two hands on the handle. The one in camp was bought "long ago" and cost Rs. 4/-. A small knife with a pointed steel blade was used for whittling and cutting in the preparation of food. Pathee: 10, most for work in IN. Camp 2. [412] [435]

YAIKE (pot rest): A hollow disc woven of soft reeds with a diameter of 6 to 8 inches is used to rest pots on - so that the carbon on their bases will not blacken the surface on which they rest. These are readily made by the women of the family. [285]

PYI DAING (Measurers): There are two of these containers, used for measuring rice in camp. The iron one had a hole in it, but was retained as a general container. It had been replaced by the wicker

25: Ferrars E-5 (ca. 1890) 1901 APl Burma
Burmese AP4



2. BURMAN GOLD-EMBROIDERED SCREEN (KALAGÀ).

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25: Ferrars E-5 (ca. 1890) 1901 APl Burma
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failed to form a conception of the power of nations beyond the sea. The Burmans had no intelligence branch in the shape of a sea-borne trade of their own. So they provoked a trial of strength, and after a struggle, which they made a long and well-nigh desperate one for their well-equipped opponents, succumbed. Burman empire was over, the ancient kingdom only remained. The people had learned the lesson, but not so their rulers, who suffered affairs to come to a thrice-repeated crisis. (See CHRONOLOGY, 1825, 1852, 1885.)

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11. THE NATIONAL EMBLEM OF BURMA.

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12. BABY'S BATH.

CHAPTER II

CHILDHOOD

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13. THE RATTAN CRADLE (PAKET).

THE cradle and the flower-stand are the two things that strike one in every Burman dwelling by the care bestowed on them. The plainest cradle has a turned rail and a carved headpiece (p. 8). The cradle swings by ropes to which the mosquito curtain is tied. The bed is made of a cotton mattress and a few plies of cloth. The infant is swaddled while its mother is lying in, and for a week or two later according to the season of the year. After that it wears only necklets and bangles. The first clothes the child gets are for grand occasions, after it has learned to run about and take care of itself. When the mother has recovered, she takes her babe with her wherever she goes, and if a wood or cane cradle is not handy she slings the infant in a plain hammock of cloth (No. 284). The Burmans do not carry their young children in a sling on the back like the hill people, but on the hip as soon as they can sit up (Nos. 327, 424).

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When the babe is hardy enough to go without covering, it spends its waking hours on a smooth mat spread over a springy bamboo floor which somewhat

25; Ferrars E-5 (ca. 1890) 1901 AP1 Burma
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next to a parent, with a life-long devotion.

Before or after the monastic novitiate, it is the custom for the Burman lads to have themselves tattooed from the waist to the knee (No. 152). Not to submit to this ordeal is to incur the reproach of cowardice. The tattooing is an intricate pattern of animals and tracery. Owing to the extent of surface involved, the process is most painful. It occupies days or weeks, according to the fortitude of the subject, who is drugged with opium for the occasion. The instrument has a handle weighted at the butt, and a long point of bronze, split like a ruling-pen. It is worked with great rapidity. The pigment is a kind of lamp-black of the consistence of ink. It shows bluish black through the brown skin. When a Burman tucks up his loin-cloth, as he always does for work or exercise (*kaddung-chaik*), he looks as if he had black knee-breeches. As plain as the contrast is to the eye, ordinary photographic plates fail to render it. In No. 153 it appears fully. On other parts of the body the men frequently have horoscopes and cabalistic diagrams tattooed with vermilion (*se-ni*, No. 162) for luck and bravado. The Shan practice of letting in gold and silver discs the size of two-penny pieces—beneath the skin—is sometimes imitated by Burmans as a charm against sword-cuts and bullets (*dàbyi*; *themabbyi*). The Arakanese, who repudiate the custom of *tigwin*, ascribe it to a Burman King, who endeavoured to disguise his leprosy in this way.

37. VILLAGE LAY SCHOOL.

38. KITE-FLYING.

25½ Ferrars E-5 (ca. 1890) 1901 APl Burma
Burmese AP4

28. ASHÉ YAHAN CARVED ON YIN.

The majority of the *kyaungs* and buildings of Burma are constructed on piles. The country at large is mountainous. The Burman race monopolises the flat lands in the basin of the upper Irawadi — "the narrows" (*Anyá*)—in the same way as the Shan races do in the sphere of their influence and the Mun (or Taláing) race in the south (Pegu). The quasi-aboriginal races occupy the hill-land and mountains. The plains-dweller settles as near as he can to the natural waterways with which Burma is abundantly provided. In the drought the rivers recede to great distances from their flood-level margins. In order to be close to the channels, the houses have to be on high piles. The races of Burma adhere to their practice of pile-building even on elevated sites, such as those of the temples. The Burman wood architecture appears to have developed through the exigencies of pile-building and under the influence, as regards decoration, of an exotic masonry style. The Burman style possesses a naïve charm recalling the art of the "ages of faith" in Western Europe. It has a certain resemblance to the wooden church-building of Norway. The style was in full vigour up to the middle of the nineteenth century. Since that time novelties of type and manufacture have crowded in faster than they could be assimilated into the indigenous arts, on which they are foisted crudely (Nos. 60, 99).

The affinities of Burman art above referred to, to the art of mediæval Europe, are extrinsic only. The "aspiring" character of the florid ornament, the quaint figures in their labyrinths of tracery, recall the crocketed niches and fantastic gargoyles of the

99. TEMPLE HILL.

25: Ferrars E-5 (ca. 1890) 1931 AP1 Burma
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60. DECADENT KYAUNG.

Gothic, especially in the richness of the *ensemble*. But the Burman decoration does not strike the eye as an efflorescence of the structure so much as an overlaying of it. The grandest work produces the effect of an elaborate model rather than a monumental achievement. The perspicuity of the play of forces operating in the structure, out of which the poetry of Gothic architecture flows, has a parallel in the Burman boat-building. But the effort which the land architecture incorporates, to interpret a masonry style in wood, was naturally productive of incongruities, despite the fact that the masonry was itself an interpretation of still earlier wood building. The outward incongruities have been mitigated in the unique style in which the genius of Burma has found expression. The stiff and monotonous feather-ornament of the Hindu gable (No. 74) has developed into the Burman flamboyant decoration. The bold finial is the sole element of the original which has been preserved literally (No. 62). The graduated ornament of the *pyatthat*, soaring above the verdure, recalls the proportions of some budding head-of-bloom—a case in point of the theory of the sources of architectural types, in the insensible suggestions of natural objects, expressed by Herbert Spencer. (*Essays*, vol. ii.) Through the Burman treatment types other than architectural, which Burma has borrowed, acquire a new and distinctive interest.

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When a *kyaung*, or any work of public utility, has been undertaken by the people of a village jointly, it is kept in good repair. But when it has been carried out at the cost of an individual—and this applies to most of the public works—the repairs are left to the founder and to his family, who have frequently

61. ORNAMENTATION OF KYAUNG.

25: Ferrars E-5 (ca. 1890) 1901 AP1 Burma
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81. SYMBOL OF MYIMMO-DAUNG.

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of the Burman type is the one cast for the Shwe-Dagôn Payá by the Emperor Sinbyu Shin in 1775, which weighs forty-one tons.

According to the Burman cosmogony the world consists of four great islands, North, South, East and West, surrounded by the ocean. Burma and the known countries are situated in the south island. In the centre of all rises Mount Meru (*Myinmo-daung*). This centre of the universe is symbolized by a conventional tower provided with niches or caverns for mythical inhabitants of every sort, *Nat*, *Zawdyl* (sorcerers), *Bilu* (ogres), monsters half human and half brute, and dragons (No. 392). The symbol of *Myinmo-daung*, made of bamboo, with paper and tinsel, is a feature of various festivals. In substantial masonry it is a frequent adjunct of the temples.

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824
[773]

The *Bo* tree (*Bawdi-bin*), together with the rest of the *ficus* family, is sacred to the Hindu. The *Bo* is a variety of the *pipal* (*ficus religiosa*), a deciduous *ficus* with long copper-coloured acumina to the leaves. It is sacred to the Buddhists because it was while resting under the shade of a *Bo* tree at Gáya in Bahár, 600 years before Christ, that Gawdama realised the vanity of the ceremonial and ascetic systems, resisted temptation, and attained to supreme enlightenment, which, as Buddha, it became his mission to impart to mankind. "The *Bo* tree is to Buddhists what the Cross is to Christians" (Bigandet). The original *Mahá-bodi* was piously tended while Buddhism flourished in India, and trees propagated from it were planted by Buddhist pilgrims. Such a tree is the historical *Bo* tree at Anurádhapúra in Ceylon, planted in 245 B.C. and still flourishing. Young plants cultivated from this tree are brought home to

82. BAWDI TREE.

25: Ferrars E-5 (ca. 1890) 1901 AP1 Burma
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With the exception of the stuff for the recluses' robes, cloth is not dyed in the piece, but in the yarn. Dyes used for cotton are also chiefly imported, but the indigenous dyes continue to be used for silk. The Burmans excel in yellows, oranges, deep reds, and rich deep greens, which they harmonise with beautiful effect. Their clear blues and purples are indifferent. Except in a few localities, where weaving is a speciality, the men take no share in the industry beyond constructing the looms. Women spin and dye the yarn and weave the cloth. The lath of the loom (*lekha*) is of graceful outline—often elaborately carved—and is furnished with two ornamented metal pins, with loose metal rings, that jangle at each swing of the beam, and proclaim the industry of the young woman, to whom this business chiefly falls. Hence it comes that the loom is a favourite *rendezvous*. The same applies to other occupations of the girls, such as rice-cleaning, when the suitor will take a turn at the heavy part of the work and lounge while the sifting goes on. Common patterns of cloth are tartans, for which two or three shuttle-spools are required. The plainest cloth woven is at least shot with a colour different to that of the warp. The intricacy of a pattern is denoted by the number of spools. Scroll patterns (*chuik*) in silk are called *hun-tayk* (hundred-spool). The warp is a cubit wide and about twenty cubits long, which makes a man's loin-cloth (*pasó*). The piece is doubled and its edges sewn together along one side; the turn of the cloth serves as a bag or wallet, according as the piece is draped; it has no lining. The *pasó* is hitched round the loins and girt long or short, according to fancy, without the help of a belt; but elastic belts are now coming in. The slack is worn in a bunch in front (*kabdangan*) or is thrown over the shoulder.

129. BINDING THE THATCH.

127. PLAITING FLOOR-MATS (see p. 60).

25: Ferrars E-5 (ca. 1890) 1901 APl Burma
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157. DOMESTIC FLOWER-STAND (MYAUNG-YE-O, pp. 9, 63).

one, no disability of a practical kind exists for her. But it is the aspiration of every woman to transmigrate as a man in the next phase of existence (*kawa*, p. 43). As the state of a man is thought a more desirable one, so it is inferred that her life in the previous incarnation has brought the woman's state upon her. How deep and tender is the poetry which the idea of transmigration weaves into the life of the Buddhist may be judged from the example at the close of Chapter XXIII. of *The Soul of a People*. Orphans are adopted by relatives, and in default of such, never fail to find foster-parents. The division of labour between the sexes is the common one of out-door and in-door. Wherever circumstances permit, women are relieved of hardship; the sheltered places in boats and carts belong to the women and children. The great middle zone of commerce is neutral; women embark in wholesale trade, besides transacting the bulk of the retail trade. In certain localities women do the lighter part of the out-door work, and in the poorer districts of the dry zone they share in the heavy labour. Women are accorded precedence among men according to the standing they have acquired by marriage or by their independent efforts. The *Kyaungmā*—the woman who has founded and who supports a school—enjoys a deference on all sides proportioned to the munificence of her gift. Women mix freely among men but are never jostled by them. At great gatherings men and women group apart. The Burman women are smart at repartee, and hold their own in the perpetual banter that goes on between the sexes.

158. WAYSIDE WATER-STAND IN THE CITY (pp. 21, 63).

25; Ferrars E-5 (ca. 1890) 1901 AP1 Burma
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159. CHILDREN AT THE RIVER SIDE (p. 91).

Every stranger, man or woman, is addressed *K'mbyá*—sir, madam. There is a courteous address for nearly every relation in life. Children, in speaking to their parents, grandparents, uncles, and aunts, say *Shin* and *Daw*—lord, lady; wife to husband, *Shin*; husband to wife, *Bya*, *Bya*—terms of endearment; younger brother or sister to elder, *Go*, *Maung-dyí*; elder brother to younger *Maung*; brothers to sisters, *Ma*. *Maung* and *Ma* (brother and sister) have become the ordinary prefixes to names, answering to our Mr., Mrs., Miss. These are used even by parents to their grown-up children. To inferiors and in disparagement, the plain *nga*, *mè*, *mi* are used. Middle-aged men are given the address *Go*, and old men that of *Û* (uncle), which is also the prefix to the *hwè* of the *yahán*. Great regard is conveyed by the address *Sayá*—teacher, master. The honorific word for wife is *gadáw*, thus—*sayá-gadáw*, *min-gadáw*. To royalty the addresses were *Gôdaw*—self; *Ashin-Payá*—lord of lords; *Pôn-daw-dyí*—of great glory. These titles came to be used for ministers and governors, as more euphemistic ones were devised for the kings. The same addresses are accorded by courtesy to the *yahán*, who on their part address the layman as *Tagá*, *Tagádaw*—supporter, great founder. The layman refers to himself as *tabyí-daw*—the honoured disciple. In other relations of life, other periphrases are used for the pronouns of the first and second persons. The plain *I* and *you* — *ngá*, *nin* — are only used in disparagement. Thus the current phrase for *I* is *tyunbk*—the humble servant. (For women, *tyun-ma*.) In addressing superiors, the phrase is *tyundáw*, *Payá-tyundáw*

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160. CHINLON GAME—APPLIQUE WORK (p. 179).

25; Ferrars E-5 (ca. 1890) 1901 AP1 Burma
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221. UMBRELLA MAKERS.

of the work can be done on a lathe. To prepare the wicker for lacquering, it is first given a "rough-stuffing" of fine clay to fill the interstices. The work is then painted with *thissi*, which penetrates and toughens the clay and binds the fibres of the wicker. When the *thissi* has set, which takes several days, the work is put on the chuck of a bow-lathe and ground smooth with a fibrous stone—a petrifaction-product. Varnishing and grinding are repeated till the surface is smooth, colour being added to the later coats. Then a coat of contrasted colour is given, and when the varnish is about half set, the pattern is chipped with a metal style through the fresh layer to the hard lacquer beneath. After the work has hardened, the patterns are embellished by scoring rings through the layers, with a tool like a carpenter's gouge, so as to bring out the underlying contrasts. The patterns are arabesques and conventionalized figures.* Subject designs are also executed (No. 224). Finally the lacquer is polished with buffs of graduated fineness. A peculiarity of *thissi* is that it sets hardest in a moist atmosphere. Every manufacturer has an underground cellar—a thing almost unknown in Burma—for the wares to harden in. Pagán, the centre of the industry, is at the same time the driest locality of the dry zone. The finest lacquer, which is only made by a few highly-skilled workmen, is so elastic that the lips of a cup may be brought to meet without the ware cracking. As much as twenty-five rupees is paid for a cup of such quality. The ordinary ware has not the tenth part of this elasticity, and sells for one to ten rupees a box. The deep cover of the betel-box is the traveller's ordinary drinking-cup.

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222. LACQUER-WARE MANUFACTURE.

* See the end-papers of the binding of this volume.

25: Ferrars E-5 (ca. 1890) 1901 APl Burma
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223. SCORING DESIGN ON LACQUER-WARE.

Thissi also forms the vehicle of a putty, with which mosaic of many-coloured mirror-glass is cemented together. This is used for the thrones and other appointments of the palaces, temples, and *kyaung*. Whole ceilings and walls are ornamented in this way (*thayé*). The mosaic is set off with gilt mouldings. The work, though often tawdry, is sometimes rich and impressive, both as to design and colour (*Frontispiece*).

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Foot-gear used to be of the nature of luxury in Burma. In houses and boats people always go barefoot. But in many parts of the dry zone the thorny weeds make sandals a necessity. The common material is raw buffalo-hide, covered on top with woollen cloth and having cloth-covered straps. The straps come from the sides, near the hollow of the foot, and arch over to the spot where the toe-post of the Indian patten is set. Tanned leather slippers of European shape made by Chinese are now ousting the Burman sandal and wood patten.

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Most of the well-known metals are found in Burma. Before the importation of pig, bar, and sheet metals, and of metal manufactures from the West began, Lawá settlers from Zimmè (Chiengmai, *Tyin-mai*) practised the smelting of iron, copper, tin, zinc, and lead. These industries have disappeared. Metal goods used to come in from the Shan States and China, but the principal manufacture was carried on by Burmans and Talaings. Even at present, the only heavy metal goods imported are iron cauldrons, anvils, sledge-hammers, and vices—besides machinery. Saws, files, chisels, augers, hinges and locks, nails and screws, dies and taps, pocket-knives and fancy metal goods, are imported. Bells for the temple precincts were, until recently, the heaviest castings made, but of late a

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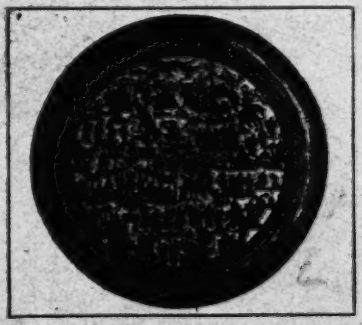

224. ETCHED DESIGN ON LACQUER (HNGEP-PYITTAUNG).

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224. WASHING FOR GOLD.

silver, of the work, for workmanship. The fineness of the gold used is from eighteen to twenty-two and a half carats. Copper is the alloy for gold (four to sixteen *yué* of copper to the *kyat* or tikal). Silver is used of rupee fineness (four *yué* of alloy to the *kyat*) up to pure metal (*baw*). The intermediate fineness of sterling silver is the most usual. Silver is alloyed with copper and with zinc. With the few implements named above, plate for display and ornaments for women's wear are fashioned, of beautiful design and considerable finish. Chasing and *repoussé* ornament are used for the gold and silver plate, filigree and beading for the gold ornaments. Those who can afford it, serve drinking-water to their guests in a large silver bowl (*paláh*) holding a gallon or so, with a small *paláh* floating on the water. Other objects of luxury are silver lime-boxes, betel-boxes, hafts and scabbards of sabres. Broad zones of *repoussé*-work are relieved by fillets and beadings. The plain vessel having been hammered into shape is filled with a tough lac. This affords a ductile matrix, yielding where the chaser is applied and supporting the relief portions. The first step is to outline the work with a bronze punch, after which the lac is melted out and the metal annealed. Lac is poured in again, and a stage of relief raised. By successive annealings the full relief is obtained.* The figure designs are the signs of the zodiac, episodes from *zat*, and mythical animals. Women frequently carry some thousands of rupees worth of gold in the form

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225. VILLAGE SILVERSMITH.

* The figure to the left in No. 237 is Go Thu Ban of Maulmain, the silversmith who designed and executed the tools used for the sides of this volume. The back is from the cover of a *Kambawsá*, to the colours of which it corresponds.

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264. TIMBER-RAFT.

plain or is oiled with crude petroleum. A wooden house of the modern Burman pattern costs from three hundred rupees upwards; a bamboo house only twenty to sixty.

The Burman turning-lathe is of the usual primitive type; two poppets sliding in a bed, with centres to hold the work, round which a cord passes from the simple treadle-bar to a springy lath or bamboo overhead. But of late, mandril-lathes have been constructed after models in the steam-mill workshops (No. 187). Mechanical construction has great attractions for the Burman, and is stimulated by the high wages of labour. The foremen sawyers at the steam-mills are Burmans, the other hands natives of India. Menders of clocks and sewing-machines are in all the towns. An engine-erecter, who had set up machinery in most countries of Europe and Asia, said he had nowhere met the same natural aptitude for handling machinery as in Burma (*cf.* p. 10).

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The floral wood-carving of Burma is remarkable for its freedom and spontaneity. Rich as the floral tracery is, the animal grotesques are laboured and deficient in fancy. The carving is done in teak-wood when it is meant for fixtures; otherwise, *yamané* is preferred. The tools employed are chisel, gouge, and mallet. The design is traced on the wood with charcoal, gouged out in the rough and finished with sharp fine tools, using the mallet for every stroke. Teak-wood and *yamané* have a coarse grain, in which fine detail cannot be rendered. Small and delicately elaborated figures are carved in sandal-wood and also in ivory. Whole tusks are carved over with figures of the Buddha and are dedicated in the *kyaungs*. In some of these the figures are modelled in a single piece under an

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265. SAWING UP THE LOGS.

25: Ferrars E-5 (ca. 1890) 1901 AP1 Burma
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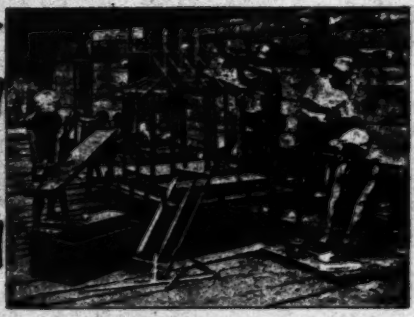

987. BURMAN CARPENTERS.

arbour of tracery, which entirely encloses them. Ivory hafts and scabbards of daggers and sabres are ornamented in the same way. The ivory carving is not polished.

The conventional flat design, painting and embroidery exhibit affinities to the Indian decoration of the ancient temples (Nos. 94, 272). The anachronisms and other naiveties of our mediæval designers are paralleled in modern Burma; witness the introduction of British officers with their field-glasses in the design of the Prince of Pagán destroying the monster at Hngeppyittaung (No. 224). The medium used for painting is a coarse tempera. From the labels attached to European goods, many of which are excellent in design and colour, lessons in colouring and perspective have been learned. From photographs, ideas of accuracy have been gathered, and from illustrated newspapers, ideas of composition. Neither carver nor designer ever uses a model. The painter of No. 433 confessed that he had not seen the place himself; he had it described to him. In pure design without colour, the *shwezawá* work is the best. It is a kind of drawing in lacquer, which appears black on a gold ground (No. 96). Of late the Burmans have attempted cuts on type-metal for illustrations of books (No. 276). They are executed with chisel and punch; the graver is unknown.

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988. BURMAN TURNER.

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Ancient inscriptions are rare in Burma, although the *thamding*, or depository for slabs recording the circumstances of religious foundations, is a recognised institution. In many of the *thamding* at Pagán may be seen the ancient *Pâli* square character, of which the Burmese round character is a development. The square character is preserved in the *kambawá* (No. 46). The late King Mindôn Min caused the whole of the Pâli text of the Tripitaka to be

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269. BURMAN WOOD-CARVER.

engraved on 729 marble slabs, 4 feet by 3 feet. These, set under as many stucco canopies, are known as the *Kûthodaw* or *Law-kama-yazin* — the royal work of merit (No. 385). They constitute the most important of the King's religious foundations. A number of years were spent by a committee of learned *yahân* in editing the text. Certain portions have since been transferred to type, and in time the whole of this text will be available in print. The development of the round Burmese character out of the square Pâli was favoured by the nature of the material used for writing on—the leaf of the *pe* palm. The fan-leaf is split into its segments, which are piled, and dried under pressure. Then they are trimmed even, and punched with holes to file them by. The leaf is ruled with turmeric, and the writing is done with a sharp steel style, which scratches through the hard epidermis to the spongy layer underneath; both sides are written on. The transverse strokes tear the fibre more, and leave a plainer mark, which leads to a minimising of longitudinal strokes. When the writing is complete, the wooden covers are lacquered, the edges of the leaves gilt, and their faces oiled with crude brown petroleum, which both preserves the material and brings out the writing. The oiling is repeated from time to time. The leaves become dark and friable in fifty years, and the writing hard to decipher. Manuscripts over two hundred years old are scarce. Copyists are paid one rupee per *inga* of ten leaves, the work of a day or two, according to their expertness. Until rag-paper began to be imported, the paper in use was

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270. CARVED SCENE FROM ZAT.

25: Ferrars E-5 (ca. 1890) 1901 AP1 Burma
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that made from the inner bark-layer of the *sekku-bin*, the same that the umbrellas are covered with (*ye-sekku*). The tree is common in the mountains

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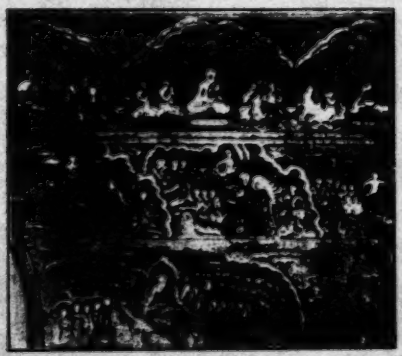
271. BURMAN PAINTER AT WORK.



272. MURAL DECORATION IN AN ANCIENT THEIN.

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273. CARVED ELEPHANT-TUSK.

on the eastern border. The bast is frayed out in water and the pulp spread on muslin trays to dry. It is soft and strong, but uneven. It was used for writing on, in its natural cream colour, with a reed pen and Chinese ink, and

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307. TYREING THE WHEEL.

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a shallow dug-out bottom with three or four side-planks built up from it. The planks are held together by cane lacing, with a caulking of grass. They are very crank, but are good sea-boats, nevertheless. The only decoration is a rough crocodile's head at the bow. The boat population of Burma in 1891 was nearly 84,000, or about 1·5 per cent. of the whole population—"greatly in excess of the proportion borne to the total by the maritime population of the most maritime nation in the world" (Census report, p. 34). The only sea-going craft are the few score *kattu*, small junks of twenty to sixty tons, manned by five or six Taláings. They venture as far to sea as the Nicobars, where they ship cocoanuts in the fine or north-east monsoon. The rest of the year they lie by. The *kattu* are built at Dawè ("Tavoy"), and cost from one to two thousand rupees. They carry a compass of European make, for use in thick weather; but the navigation is empirical.

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The cart-building exemplifies the Burman love of curves. In Burma Proper the root-wood of *shê* (cutch) is dug out for the sake of the bent timber. In Pegu, curved branches of *thingán* are used for the body. For wheels, solid discs of *kaung-hmu* and other woods were used in Pegu, where timber grows large (No. 306). In the North, the solid wheel is still made up of three pieces, held together by mortices and tenons (Nos. 301, 309). *Padáuk* is the wood preferred for these wheels. They have a very long box for the axle, which is of *pangé* wood; the axle-box is hooped with rattan. Since the introduction of spokes and iron tyres, skill has been concentrated on the wheel; the body of the cart preserves its local type. The Burman has proved the best wheelwright of the East, both

308. PLEASURE-CART, BURMA PROPER.

25; Ferrars E-5 (ca. 1890) 1901 APl Burma
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388. TEMPLES RAISED BY A MODERN KING (THE KUTHODAW p. 122).

historic centres of Burman dominion. Sagáing was abandoned for the last time in 1776 for a new capital at Amayapôya (*Amarapúra* — Abode of Immortals) half-way between Ava (*Inwa*) and the modern capital Mandálé, which was founded in 1857, after the accession of King Mindôn Min. The most ancient capital is Tagáung, one hundred miles north of Mandalé. Other capitals were Shwebô, Myinzaing, Pannya. The capitals of the Taláing dominion were Thatôn, Pegu, and Prome (*Pye*). Rangoon (*Yangôn*), at the meeting point of five navigable channels, and with anchorage for the largest ships, has out-distanced all competitors since the modern development of commerce.

For the history of Burma the only available source is the official chronicle kept by command of the kings—*mahá-yazawín*. The first part is occupied with the legendary origin of the race from the cloud-dwellers—*Byammá* (the Burman form of *Brahma*).* The names and doings of legendary persons follow, and lines of legendary kings. The earliest historical facts which emerge are the founding of Tagáung, and incidents relating to the Buddha and the councils of his church in India. It is believed by Phayre that the *Savanna Bhumi* of ancient Indian books refers to Thatôn, and that under *Chrysé Chersonesus* Ptolemy refers to the Eastern Peninsula of Asia. We do not reach a connected history till the founding of Pagán about 100 A.D. From that epoch onwards the history of the peninsula, until the Burman Empire was consolidated and the dynasty of

389. FIGURES OF BYAMMA (EMBROIDERY).

* The name is also written *Myanmá*, but commonly pronounced *Bamá*, of which "Burma(h)" and "Birma" are corruptions.